

Form PTO-1449 (Modified)

JUN 0 3 2002 INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office

Atty Docket No 29853/37702 Serial No. 10/033,571

Applicant

Zhang, et al.

Filing Date 12/27/01 Group 1648

	U.S. PATENT DOCUMENTS								
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate		
MM		4,352,883	10/05/82	Lim	435	178			
71		4,725,547	02/16/88	Sakamoto, et al.	435	239			
		5,607,851	03/04/97	Pellegrini, et al.	435	236			
1.	*	5,744,304	04/28/98	Munford	436	6			
V	*	5,837,520	11/17/98	Shabram, et al.	435	239			

		F	OREIGN PA	TENT DOCUM	1ENTS		
Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation
	*-	4-9338	01/14/92	JAPAN			
MM	*	0 475 623 A1	03/18/92	EPO			
	*	WO 93/25224	12/23/93	PCT			
	*	WO 94/06910	03/31/94	PCT			
		WO 94/17178	08/04/94	PCT			
		WO 95/25789	08/28/95	PCT			
		WO 96/27677	09/12/96	PCT			
	*	WO 97/04803	02/13/97	PCT			
		WO 97/08298	03/06/97	PCT			
J		WO 98/00524	01/08/98	PCT			

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
Aboud, et al., "Rapid purification of extracellular and intracellular molon leukemia virus," <i>Arch. Virol.</i> , 71:185-195, 1982.						
	Berg, et al., "High-live expression of secreted proteins from cells adapted to serum-free suspension culture," <i>BioTechniques</i> , 14(6):972-978, 1993.					
	Bett, "An efficient and flexible system for construction of adenovirus vectors with insertions or deletions in early regions 1 and 3," <i>Proc. Natl. Acad. Sci. USA</i> , 91(19):8802-8806, 1994.					

DATE

10-18-04



12/27/01

Form PTO-1449 (Modified)

JUN 0 3 2002

U.S. Department of Commerce Patent and Trademark Office

Atty Docker No. Serial No 29853/37702 10/033,571 Applicant Zhang, et al. Filing Date Group

1648

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

			OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
M	$\mathcal{N}$	*	Cartwright, Terrance, "Animal cells as bioreactors," Cambridge University Press, pp. 58-63, 1994
		*	Complaint Aventis Pharmaceuticals Products, Inc. and Aventis Pharma, S.A., Plaintiffs, v. Introgen Therapeutics, Inc., Defendant. Civil Action No. O1-451 from the U.S. District Court for the District of Delaware, June 29, 2001, dismissed with prejudice July 2, 2001.
			Crooks, et al., "Purification and analysis of infections virions and native non-structural antigens from cells infected with tick-borne encephalitis virus," <i>J. Chrom.</i> , 502:59-68, 1990.
			Garnier, et al., "Scale-up of the adenovirus expression system for the production of recombinant protein in human 293S cells," <i>Cytotechnol.</i> , 15:145-155, 1994.
·	-, -, -		Gilbert, "Adaptation of cells to serum-free culture for production of adenovirus vectors and recombinant proteins," Williamsburg BioProcessing Conference, Nov. 18-21, 1996.
			Graham and Prevec, "Manipulation of adenovirus vectors," Int. Methods in Molecular Biology: Gene Transfer and Expression Protocols 7, (Murray, Ed.) Humana Press, Clifton, NJ, pp. 109-128, 1991.
	· ,		Graham, et al., "Characteristics of a human cell line transformed by DNA from human adenovirus type 5," <i>J. Gen. Virol.</i> , 36:59-72, 1977.
			Graham, "Growth of 293 Cells in Suspension Culture," J. Gen. Virol., 68:937-940, 1987.
			Griffiths, "Overview of cell culture systems and their scale-up," <i>In: Animal Cell Biotechnology</i> , 3:179-220, 1986.
		,	Hay, et al., "Replication of adenovirus mini-chromosomes," J. Mol. Biol., 175:493-510, 1984.
	2		Hearing and Shenk, "Functional analysis of the nucleotide sequence surrounding the cap site for adenovirus type 5 region EIA messenger RNAs," <i>J. Mol. Biol.</i> , 167:809-822, 1983.
			Hearing, et al., "Identification of a repeated sequence element required for efficient encapsidation of the adenovirus type 5 chromosome," <i>J. Virol.</i> , 61:2555-2558, 1987.
			Huyghe, et al., "Purification of a type 5 recombinant adenovirus encoding human p53 by column chromatography," <i>Hum. Gene Ther.</i> , 6:1403-1416, 1996.
		_	International Search Report dated July 16, 1998 (PCT/US97/21504) (INON:058P)
	MM		Jones and Shenk, "Isolation of deletion and substitution mutants of adenovirus type 5," <i>Cell</i> , 13:181-188, 1978.
\			Larsson and Litwin, "The growth of polio virus in human diploid fibroblasts grown with cellulose microcarriers in suspension cultures," <i>Dev. Bio. Standard</i> , 66:385-390, 1987.

EXAMINER:	Mony
-----------	------

DATE:

10-18-04



Atty Docket No Serial No 10/033,571 29853/37702 Applicant Zhang, et al.

(Use several sheets if necessary)

Filing Date Group 12/27/01 1648

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
WW		Lentfer, D. and Conde, C., "A Rapid and Inexpensive Procedure for the Purification of Adenovirions" 1978.
		Levrero, et al., "Defective and nondefective adenovirus vectors for expressing foreign genes in vitro and in vivo," Gene, 101:195-202, 1991.
		Mann, et al., "Construction of a retrovirus packaging mutant and its use to produce helper-free defective retrovirus," <i>Cell</i> , 33:153-159, 1983.
		McGrath, et al., "Retrovirus purification: method that conserves envelope glycoprotien and maximizes infectivity" J. Virol., 25:923-927, 1978.
		Mizrahi, "Production of human interferons-an overview," <i>Proc. Biochem.</i> , (August):9-12, 1983.
		Montagnon, B.J., "Polio and Rabies Vaccines Produced in Continuous Cell Lines: A Reality for Vero Cell Line" 1989.
		Morris, et al., "Serum-free production of adenoviral vectors for gene therapy," Williamsburg BioProcessing Conference, Nov. 18-21, 1996.
	*	Nadeau, et al., "Improvement of Recombinant Protein Production with the Human Adenovirus/293S Expression System Using Fed-Batch Strategies," <i>Biotechnology and Bioengineering</i> 51:613-23, 1996.
		Nicolas and Rubenstein, "Vectors: a survey of molecular cloning vectors and their uses," <i>In: Vectors: A survey of molecular cloning vectors and their uses</i> , (Rodriguez and Behhardt, eds.), Stoneham: Butterworth, pp. 493-513, 1988.
		Nilsson and Mosbach, "Immobilized animal cells," <i>Dev. Biol. Standard</i> , 66:183-193. O'Neil and Balkovic, "Virus harvesting and affinity-based liquid chromatography," <i>Bio. Technol.</i> , 11:173-178, 1993.
	*	Payment, et al., in <i>Biotechnology Current Progress</i> , Eds. Paul Cheremisinoff and Louise Ferrante, Technomic Publishing Co., Lancaster/Basel, Vol. 1, pp. 61-82, 1991.
		Perrin, et al. "An experimental rabies vaccine produced with a new BHK-21 suspension cell culture process; use of serum-free medium and perfusion-reactor system," <i>Vaccine</i> , 13(13):1244-1250, 1995.
į		Petricciani, "Should continuous cell lines be used as substrates for biological products?," <i>Dev. Biol. Standard</i> , 66:3-13, 1985.
		Phillips, et al., "Experience in the cultivation of mammalian cells on the 8000 1 scale," <i>In: Large Scale Mammalian Cell Culture</i> (Feder and Tolbert, eds.), Academic Press, Orlando, FL, U.S.A., 1985.
		Provisional U.S. Patent Application Serial No. 60/026,667, Entitled: "METHOD FOR THE PRODUCTION OF RECOMBINANT ADENOVIRUSES," RPR File No. ST96021-U.S., Translated from the French by the Medical Documentation Service® Institute for Scientific Information® Philadelphia, Pennsylvania.

EXAMINER Wolly	DATE: 10-18-04



12/27/01

Form P1O-1449 (Modified)

JUN 0 3 2002 E 0 HUL

U.S. Department of Commerce Patent and Trademark Office

1648

## INFORMATION DISCEOSURE STATEMENT

(Use several sheets if necessary)

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
M/^		Roux, et al., "A versatile and potentially general approach to the targeting of specific cell types by retroviruses: application to the infection of human cells by means of major histocompatibility complex class I and class II antigens by mouse ecotropic murine leukemia virus-derived viruses," <i>Proc. Nat 'I Acad. Sci. USA</i> , 86:9079-9083, 1989.
	Smith and Lee, "Large-scale isolation and partial purification of type C RNA viruses on hydroxyapatite," <i>Analytical Biochem.</i> , 86:252-263, 1978.	
		Temin, "Retrovirus vectors for gene transfer: efficient integration into and expression of exogenous DNA in vertebrate cell genomes," <i>In: Gene Transfer</i> , (Kucherlapati, ed.) Plenum Press, New York, pp. 149-188, 1986.
		Tibbetts, "Viral DNA sequences from incomplete particles of human adenovirus type 7," Cell, 12:243-249, 1977.
	*	Trepanier, et al., "Concentration of Human Respiratory Syncytial Virus Using Ammonium Sulfate, Polyethylene Glycol or Hollow Fiber Ultrafiltration," <i>Journal of Virological Methods</i> 3:201-211, 1981.
		van Wezel, "Growth of cell-strains and primary cells on micro-carriers in homogeneous culture," <i>Nature</i> , 216:64-65, 1967.
		Wang, et al., "High cell density perfusion culture of hybridoma cells for production of monoclonal antibodies in the celligen packed bed reactor," <i>In:Animal Cell Technology: Basic &amp; Applied Aspects</i> , (Kaminogawa, et al., eds), Kluwer Academic Publishers, Netherlands, 5:463-469, 1993.
		Wang, et al., "Modified CelliGen-packed bed bioreactors for hybridoma cell cultures," <i>Cytotechnol.</i> , 9:41-49, 1992.
4	*	Wills, et al., "Adenovirus Vectors of Gene Therapy of Cancer," <i>Journal of Cellular Biochemistry</i> ," Supp. 17E, S216:206, 1993.

EXAMINER: Wolfe	1	DATE	10-18-04	/	

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Attorney Docket Number

Under the Paperwork Reduction Act of 1995, no persons are require

Substitute for form 1449A/B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

red to respond to a collection	of information unless it contains a valid OMB control rumb				
	Complete if Known				
Application Number 10/033,571-Conf. #09714					
Filing Date December 27, 2001					
First Named Inventor Shuyuan Zhang					
Art Unit	1648				
Examiner Name	M. Mosher				

29853/37702

Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2</sup> ( if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
7017)	Α	US-6,485,958 B2	11/26/02	Blanche et al.	
	В	US-6,537,793B2	03/25/03	Blanche, et al.	

FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patient Documents at <a href="https://www.uspig.gov">www.uspig.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner		Date	
Signature	N A . ~	4/1	10-15-04
Signature	IV(X(Z)	// Considered	10-10-10

<sup>&#</sup>x27;Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.